	Application No.	Applicant(s)	
	40/507 577	11 01010 14	
Notice of Allowability	10/537,577 Examiner	LI, QIONG M. Art Unit	
		,	
	An T. Luu	2816	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSE or other appropriate co IGHTS. This application	ED in this application. If not included mmunication will be mailed in due course	
1. This communication is responsive to An RCE filed on 8-17	<u>′-07</u> .		
2. The allowed claim(s) is/are <u>1-9</u> .	•	•	
3. ☐ Acknowledgment is made of a claim for foreign priority unea) ☐ All b) ☐ Some* c) ☐ None of the:	nder 35 U.S.C. § 119(a)	-(d) or (f).	
 Certified copies of the priority documents have 	e been received.		
Certified copies of the priority documents have	e been received in Appli	cation No	
Copies of the certified copies of the priority do	cuments have been rec	eived in this national stage application fro	m the
International Bureau (PCT Rule 17.2(a)).	•		
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			ents
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		eview (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		.·	
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comme	nt or in the Office action of	.'
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL M FOR THE DEPOSIT OF	IATERIAL must be submitted. Note the BIOLOGICAL MATERIAL.	е ,
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Attachment(s)	·		
1. ☑ Notice of References Cited (PTO-892)		of Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		w Summary (PTO-413), No./Mail Date	
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 8-17-07	7. ☐ Examir	ner's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examir	ner's Statement of Reasons for Allowance	:
of Biological Material	9. ☐ Other _		

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the prior art of record fails to disclose an apparatus and method thereof comprising the limitation "means for generating a plurality of on/off timing-based interrupts; means for generating a force on/off action-based interrupt having a programmable control; means for generating a force on/off action-based interrupt having an external control; and, means for interpreting said generated plurality of timing-based interrupts and said at least one action-based interrupt such that the series of pulse widths of the PWM waveform generator are modulated in accordance with said protocol" as required by claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to An T. Luu whose telephone number is 571-272-1746. The examiner can normally be reached on Monday to Friday from 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Richards can be reached on 571-272-1736. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/537,577

Art Unit: 2816

Page 3

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

An T. Luu 9-1-07

> หลากอเก B. Wells Primary Examiner

PTC/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Application Number		10537577		
INFORMATION DIGGLOSUPE	Filing Date		2005-06-06		
INFORMATION DISCLOSURE	First Named Inventor	Qiong	g LI		
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		2816		
(Not for Submission ander or of it not)	Examiner Name	An T.	LUU		
	Attorney Docket Numb	er	US020528		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10537577				
Filing Date		2005-06-06				
First Named Inventor Qiong		И				
Art Unit		2816				
Examiner Name An T.		LUU				
Attorney Docket Number		US020528				

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Standard ST.3).	. ³ For Japa ent by the a	nese patent documents, the indication of the year of the propriate symbols as indicated on the document und	201.04. ² Enter office that issued the document, by the two-letter code (the reign of the Emperor must precede the serial number of the patent do ler WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check ma	ocument.

Application/Control No. Applicant(s)/Patent Under Reexamination 10/537,577 LI, QIONG M. Notice of References Cited Art Unit Examiner Page 1 of 1 2816 An T. Luu **U.S. PATENT DOCUMENTS Document Number** Date Classification Name Country Code-Number-Kind Code MM-YYYY US-7,126,397 10-2006 Mok, Stephanie Z. 327/175 Α US-В С US-US-D US-Æ US-F US-G US-US-1 US-US-Κ US-US-М FOREIGN PATENT DOCUMENTS **Document Number** Date Country Name Classification Country Code-Number-Kind Code MM-YYYY Ν 0 Ρ Q R S Т **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) U ٧

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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Application/Control No.	Applicant(s)/Patent under Reexamination
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Examiner	Art Unit
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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"4599550".pn.	USPAT	OR	OFF	2007/09/01 16:57
L2	396	327/172-176,291,298.ccls. and ("PWM" or pulse adj2 modulat\$3)	US-PGPUB; USPAT	OR	OFF	2007/09/01 17:28
L3	82080	"PWM" or pulse adj2 modulat\$3	US-PGPUB; USPAT	OR	OFF	2007/09/01 17:29
L4	322132	interpret\$4 and (interrupt\$3 or block\$3 or prevent\$3)	US-PGPUB; USPAT	OR	OFF	2007/09/01 17:31
L5	10505	3 and 4	US-PGPUB; USPAT	OR 1	OFF	2007/09/01 17:30
L6	148873	tim\$3 adj3 (interrupt\$3 or block\$3 or prevent\$3)	US-PGPUB; USPAT	OR	OFF	2007/09/01 17:33
L7	8248	3 and 6	US-PGPUB; USPAT	OR	OFF	2007/09/01 17:32
L8	596	7 and series near2 pulse\$1	US-PGPUB; USPAT	OR	OFF	2007/09/01 17:32
L9 🗸	590	8 not 2	US-PGPUB; USPAT	OR	OFF ·	2007/09/01 17:33
L10	45226	(programmable selectable controllable) with (interrupt\$3 or block\$3 or prevent\$3)	US-PGPUB; USPAT	OR	OFF	2007/09/01 17:33
L11	121	9 and 10	US-PGPUB; USPAT	OR	OFF	2007/09/01 17:42
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Application Number	10537577	Filing Date	2005-06-06	Docket Number (if applicable)	US020528US	Art Unit	2816				
First Named Inventor	Qiong LI			Examiner Name	An T LUU						
This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV											
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X The Dire	The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 141270										
	S	IGNATUR	RE OF APPLICANT	Γ, ATTORNEY, OF	R AGENT REQUIRED						
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Under the Panerwork Reduction Act of 1995, no persons are required to re-	spond to a collection of information unless it contains a valid OMB control number.

	Signature of Registered U.S. Patent Practitioner								
Signature	/Paul Im/	Date (YYYY-MM-DD)	2007-08-17						
Name	Paul Im	Registration Number	50418						

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

INFORMATION DISCLOSURE	Application Number		10537577	
	Filing Date		2005-06-06	
	First Named Inventor	Qiong	, LI	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		2816	
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	Attorney Docket Number		US020528	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10537577
Filing Date		2005-06-06
First Named Inventor Qiong		Ц
Art Unit		2816
Examiner Name An T.		LUU
Attorney Docket Number		US020528

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10537577
Filing Date		2005-06-06
First Named Inventor Qiong		Ц
Art Unit		2816
Examiner Name An T.		LUU
Attorney Docket Number		US020528

Plea	se see 37 CFR 1	.97 and 1.98 to make the appropriate selecti	on(s):						
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).								
OR									
	foreign patent of after making rea any individual de	information contained in the information difice in a counterpart foreign application, an sonable inquiry, no item of information containsignated in 37 CFR 1.56(c) more than the 37 CFR 1.97(e)(2).	id, to the knowledge of th ained in the information dis	e person signing the certification sclosure statement was known to					
	See attached cer	rtification statement.							
	Fee set forth in 3	7 CFR 1.17 (p) has been submitted herewith	٦.						
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Sigr	nature	/Paul Im/	Date (YYYY-MM-DD)	2007-08-17					
Nan	ne/Print	Paul Im	Registration Number	50418					
publ	ic which is to file	mation is required by 37 CFR 1.97 and 1.98 (and by the USPTO to process) an application is estimated to take 1 hour to complete, inclu	on. Confidentiality is gover	med by 35 U.S.C. 122 and 37 CFR					

application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria**,

CERTIFICATION STATEMENT

VA 22313-1450.

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 court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement
 negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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 may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant
 to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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EFS ID:	2095883			
Application Number:	10537577			
International Application Number:				
Confirmation Number:	6721			
Title of Invention:	HARDWARE/SOFTWARE IMPLEMENTATION OF A PWM WITH ENHANCED FEATURES USING A STANDARD MICROPROCESSOR			
First Named Inventor/Applicant Name:	Qiong M. Li			
Customer Number:	24737			
Filer:	Paul Im./Natale Manzo			
Filer Authorized By:	Paul Im.			
Attorney Docket Number:	PHUS020528			
Receipt Date:	17-AUG-2007			
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Time Stamp:	13:45:31			
Application Type:	U.S. National Stage under 35 USC 371			

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination	US020528_RCE.pdf	36001	no	3
'	(RCE)	00020020_1102.pdi	01522843e70f4e21c2aad05b0b23f3f2ff 763644	110	
Warnings:					
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2	Information Disclosure Statement	US020528_IDS.pdf	693237	no	4
2	(IDS) Filed	00020320_ibo.pdi	14ca671039eb2b0bce20ba181eec99e4 aeb3eb82		
Warnings:					
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3	Fee Worksheet (PTO-06)	fee-info.pdf	8377	no	2
0	r de Worksheet (r 10 00)	ice illio.pai	6f9018ede4e6c5796b58510587971d14 b2719e5b		
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.